

PDS  
3/11  
998.75

10 March 1965

**MEMORANDUM FOR:** Director, National Photographic Interpretation Center

**SUBJECT:** Approval for [ ] Copy Camera

**REFERENCE:** Chief, Administrative Staff, O/DDI, Memorandum Dated 4 February 1964: Approval of Research and Development Activities

In accordance with the authority delegated by paragraph 3. of the reference, approval for the [ ] copy camera in the amount of [ ] as outlined in Attachment "A" is requested.

[ ]  
Colonel, USAF  
Assistant for Plans and Development

**APPROVED:** [ ]  
ARTHUR C. LUNDAHL  
Director, NPIC

15 Mar '65  
Date

**Attachment:** "A"

**Distribution**

- Orig & 1 - Addressee
- 1 - O/Dir
- 1 - P&DS
- 1 - PD/OL after sign.

LB/SS/NPIC [ ] 9 Mar 1965)

Declass Review by NGA.

SECRET

(When Filled In)

Approved For Release 2004/11/30 : CIA-RDP78B04770A000600020008-7  
R & D CATALOG FORM

6 February 1965

1. PROJECT TITLE/CODE NAME <div style="border: 1px solid black; display: inline-block; width: 100px; height: 20px; vertical-align: middle;"></div> Copy Camera		2. SHORT PROJECT DESCRIPTION A fixed focus Polaroid Copy Camera with fully automatic exposure control.	
3. CONTRACTOR NAME <div style="border: 1px solid black; display: inline-block; width: 200px; height: 20px;"></div>		4. LOCATION OF CONTRACTOR <div style="border: 1px solid black; display: inline-block; width: 200px; height: 20px;"></div>	
5. CLASS OF CONTRACTOR Manufacturer		6. TYPE OF CONTRACT Fixed price	
7. FUNDS FY 19 \$ FY 19 65 \$ FY 19 \$		8. REQUISITION NO. NA	9. BUDGET PROJECT NO. NP-R-8
		10. EFFECTIVE CONTRACT DATE (Begin - end) 15 Mar. - 15 May 1965	11. SECURITY CLASS. A.A. - Conf. T. - Unclass. W. - Unclass.
12. RESPONSIBLE DIRECTORATE/OFFICE/PROJECT OFFICER TELEPHONE EXTENSION DDI/NPIC/P&DS, <div style="border: 1px solid black; display: inline-block; width: 100px; height: 20px;"></div>			
13. REQUIREMENT/AUTHORITY PID/CIA has requested that a copy camera be developed employing the principles described in the <div style="border: 1px solid black; display: inline-block; width: 50px; height: 15px;"></div> proposal. PID has long felt the need for quick, working copies -- enlargements of about 3 diameters -- which are of intermediate film quality and can be used as temporary reference materials.			
14. TYPE OF WORK TO BE DONE Engineering Development			
15. CATEGORIES OF EFFORT MAJOR CATEGORY Reproduction and Processing Equipment SUB-CATEGORIES			
16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM, EQUIPMENT, ETC. One prototype, fixed focus copy camera. This camera will be an improvement over current systems in that it will have a fully automatic exposure control and will use rolls, rather than sheets of Polaroid film.			
17. SUPPORTING OR RELATED CONTRACTS (Agency & Other)/COORDINATION Because of extensive contacts throughout industry and the intelligence community, it has been determined that no such instrument is now in existence.			
18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT (Continue on additional page if required) This camera will have application not only in producing temporary reference materials but also in aiding to identify briefing board areas on special lab orders where precise locations must be conveyed to the lab. The camera will basically be a fixed focus camera producing 3X enlargement of a 1 x 1 1/4 inch format. The camera will accommodate Polaroid roll film, including types 42, 46L, 47, 48, and 146L. Exposure time will be varied by a photosensor in combination with transistorized circuitry. A control will be provided to adjust for various film speeds.			
19. APPROVED BY AND DATE OFFICE DEPUTY DIRECTOR DDCI			
Approved For Release 2004/11/30 : CIA-RDP78B04770A000600020008-7			

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R & D CATALOG Form

18. Areas will be provided at the objective plane for insertion of the security classification so that it will be recorded on the final print. The various levels of classification will be printed on a single glass plate so that the operator must simply change the plate for the desired classification.

This project has been coordinated with [ ] PID/CIA, and Mr. [ ]

The contract will be [ ] Confidential. The required security measures are already in effect at the contractor's plant as a result of other [ ] contracts.

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999175  
Memo For: Director, NPIC *Chief Support Staff*  
*Attn: Chief Logistics Branch*  
Subject: Purchase of Photogrammetry Copy Cameras.

On October of 1964, [ ] demonstrated to the Director, NPIC, a prototype fixed-focus enlarging copy camera. This camera produced a 3.16 X enlargement on polaroid film. At this demonstration, [ ] expressed the opinion that he could supply the camera in quantity for about [ ]

In January 1965, [ ] loaned the camera to NPIC for a quick operational evaluation. The camera was used on Mission 1016 and found enthusiastic acceptance as an aid for the location of areas to be enlarged by the Photographic Laboratory Branch/PSD.

It was assumed that because the camera <sup>received an enthusiastic</sup> found such response, that it would be most advantageous to obtain this camera as soon as possible. The use of this camera will not only reduce operational time but will also increase the precision of locating areas for subsequent enlargement. At the time of the operational evaluation, three components expressed an immediate need for a total of four units.

The P & DS investigated the possibility of producing these units quickly. [ ] responded with a quote for four units at a cost of [ ] deliverable in 45 days. The reason the cost was so much higher than originally quoted is because of the quick response time involved. [ ] will build future cameras at the lower price quoted when they have determined the Armed Forces' requirements and can undertake quantity production. From past experience it is felt that this would incur an intolerable delay.

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Although the P & DS is anticipating the development of an advanced prototype copy camera, the earliest possible delivery date for the prototype is five months. After the delivery of the prototype, it must be evaluated and even if successful, the span of time would be 6 to 8 months before operational units could be obtained.

Since the Photogrammetry camera found such wide and immediate acceptance <sup>for</sup> to the high priority operations at NPIC, it is recommended that immediate procurement be undertaken for the four units previously

mentioned at the quoted cost of [REDACTED] *It must be understood that the final decision for procurement remains the prerogative of the operational divisions concerned*

[REDACTED]  
Asst. for Plans & Development

Prepared by: [REDACTED]

Distribution:

Original & 1 - Procurement Division  
2 - DB/P & DS  
1 - P & DS Chrono

18 Feb - Talked to [REDACTED] on this matter - As far as he knows there is no problem as to cost - Intends to ask [REDACTED] to see if Photo-Tec would be interested in building only two - Suggest you hold a file this memo against possible future use

SECRET

SECRET  
(When Filled In)

6 February 1965

TECHNICAL BACKGROUND PROCUREMENT INFORMATION

I. Contractor

A. Name and address: \_\_\_\_\_

25X1

B. Evaluation of previous performance: Previous performance has been highly  
satisfactory

II. Brief description of this procurement: A prototype fixed focus Polaroid copy  
camera with fully automatic exposure control.

Estimated total amt. \$ \_\_\_\_\_

25X1

A. Deliverable items: 1 (one) prototype copy camera and instruction manual

B. Is this procurement for other than a standard, "off the shelf" or slightly modified commercial item? yes If "yes", is it anticipated that any more of this unit will be procured? yes If so, a complete set of directly reproducible manufacturing drawings and specifications would normally be included in this procurement. Comments: \_\_\_\_\_

C. Will contract cover a period of more than 90 days? No  
If "yes", are progress reports desired? \_\_\_\_\_ If so, indicate frequency, content and number of copies desired: \_\_\_\_\_

D. Is any Government-owned property to be provided to the contractor?

No If so, list and indicate its availability (where, when, etc.) \_\_\_\_\_

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(When Filled In)

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(When Filled In)

E. Is any special tooling involved? No

F. Security:

1. Association with the Sponsor is Confidential

2. The specifications and/or drawings are Unclassified

3. The item is Unclassified

4. Contractor personnel known to be aware of this proposed procurement:

[Redacted]

5. Other security information The required security measures are already in effect at the contractor's plant as a result of other [Redacted] contracts.

III. Reasons for selection of this source. If other sources were considered, indicate results. If no other sources were considered, list the reasons why this firm is considered to be uniquely qualified to perform this work.

[Redacted] has developed related equipment for NPIC in the past which has been highly successful and for this reason they were selected as a sole source supplier.

IV. Technical contact

[Redacted]

Name

Telephone

In the event additional space is required, use the reverse side(s) of this form, with a reference to the item number to which the comment applies.

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(When Filled In)

NPIC ROUTING SLIP

P/207 440110

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FROM: PD

DATE: 1 FEB 1965

TO	INITIALS	DATE	REMARKS
DIR			Have a copy of [redacted]
DEP/DIR			Quote to [redacted]
EXEC/DIR			[redacted]
			and told them
ASST FOR ADMIN			to order on reg. on
			4 Feb. J.S.D.
ASST FOR OPS			[redacted] 50
ASST FOR PA			
ASST FOR P&D	X		Per -
			Bill M 20 Jan 1965
CH/CSD			Unless you all have
CH/IPD			made some commitment
CH/PD			to PD 7 will call
CH/PSD			& tell them to order
CH/TID			the two cameras them-
			selves - How about
			ordering information?
CH/CIA/PID			[redacted] will
DIA/XX-4			provide for with
CH/DIA/AP-IP			nomenclature for
CH/SPAD			request on Bill M
LO/CGS/CIA			
LO/NSA			

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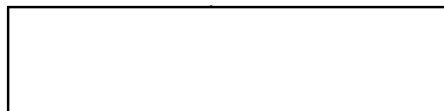
**SECRET**

NPIC/PD 35-65  
1 February 1965

MEMORANDUM FOR: Chief, Plans and Development Staff

SUBJECT : Purchase of Photogrammetry 3X Copy Camera

Publications Division personnel have recently evaluated the prototype model of the Photogrammetry 3X Copy Camera and believe that it would be a useful tool in the Graphical Analysis Branch of this Division. It is recommended that two cameras be ordered at this time.



Chief, Publications Division, NPIC

Distribution:

Orig & 1 - Addressee  
2 - PD/NPIC

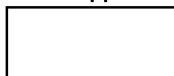
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P+DS



998175

NPIC PROJECT NO.

CONFIDENTIAL 27 JAN '65

Confidential

CLASSIFICATION

RECEIPT OCB/OS

SUPPORT/SERVICE REQUIREMENT

DISSEMINATED OCB/OS

(The following info is required when rqmts are levied by external organizations)

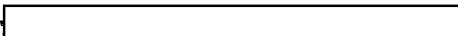
OFFICE \_\_\_\_\_ DATE OF RQMT \_\_\_\_\_ CONTROL NO. \_\_\_\_\_

NPIC DIV/DETACH PROCESSING RQMT \_\_\_\_\_ PROJ OFF \_\_\_\_\_ PHONE \_\_\_\_\_

SUPPORT REQUESTED OF \_\_\_\_\_ PRIORITY \_\_\_\_\_ DATE REQUIRED \_\_\_\_\_

(The following info is required when rqmts are levied for internal support)

DIV/STAFF P&amp;DS \_\_\_\_\_ DATE OF RQMT 27 JAN '65 \_\_\_\_\_ CONTROL NO. \_\_\_\_\_

SUPPORT REQUESTED OF P&DS \_\_\_\_\_ PROJ OF 

PRIORITY \_\_\_\_\_ DATE REQUIRED 3 March 1965

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## 1. BACKGROUND INFORMATION:

- The work requested is in support of a departmental: ☐ Photo interpretation proj.;  
☐ Non-photo interpretation project. It will result in: ☐ Hard copy report;  
☐ Informal report (memo); ☒ Basic service only.

Project Description:

Fixed Focus Copy Camera

2. SPECIFIC SUPPORT/SERVICE REQUESTED: Support from NPIC will probably consist of:  
☐ Photographic; ☐ Reproduction; ☐ Mensuration; ☐ Graphics; ☐ ADP; ☐ Editing;  
☒ Other (explain below) -- (Include statement as to estimated amount of work required  
 support component(s); i.e., number of contact prints, enlargements, boards, etc.)

This project covers precontract investigation required for the development  
 of a small, portable fixed focus, fixed magnification copy camera for use by  
 PID, PAG, and PD/

3. URGENCY JUSTIFICATION: (If immediate support is required a statement of justification  
 must be made on this form.)

DATE OF COMPLETION

Confidential

CLASSIFICATION

NPIC FM 218 (4-64)

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25X1

January 6, 1965  
MW-N-15

Dear Frank:

In November you discussed a need for a device to simply and quickly make a 3X enlargement of a 1 X 1½ inch area on a light table with [redacted] Subsequent conversations with [redacted] evolved the following general description of a device we believe would satisfy your requirement:

DESCRIPTION:

This will be basically a fixed-focus camera, mounted on a stand to establish the object-to-lens distance (see sketch). The base plate, which will contact the film, will be made of plexiglas for easy location of images. The aperture at the film plane to be 1 X 1½ inches.

FILM: Handling Capability

Polaroid Roll film 4½ X 3½, which includes Type 47-3000ASA-10 sec. dev.; Type 42-200ASA-10 sec. dev.; Type 48-800ASA-120 sec. dev. color; Type 46L-800ASA-120 sec. dev. transparency; Type 146L-200ASA-10 sec. dev. transparency high contrast.

LENS:

50 mm Schneider componon f/4 Enlarger Lens.

EXPOSURE:

Fully automatic. Exposure time will be varied by a photosensor (cadmium sulphide) in combination with transistorized circuitry. A control will be provided to accommodate various film speeds.

PRINT CLASSIFICATION:

Two areas will be provided at the object plane for the insertion of security classification on the final print. Classification information will be photographed on a single glass plate so that a variety of classifications can be made and the changing of the plate will be simple (no small tabs to handle).

POWER:

One 4½ volt, dry cell battery.

-2-

January 6, 1965  
MW-N-15

25X1 We could provide a prototype device of this nature in 6 weeks  
at a price of

Regards,

*Charlie*  
Charlie

mw  
Attachment